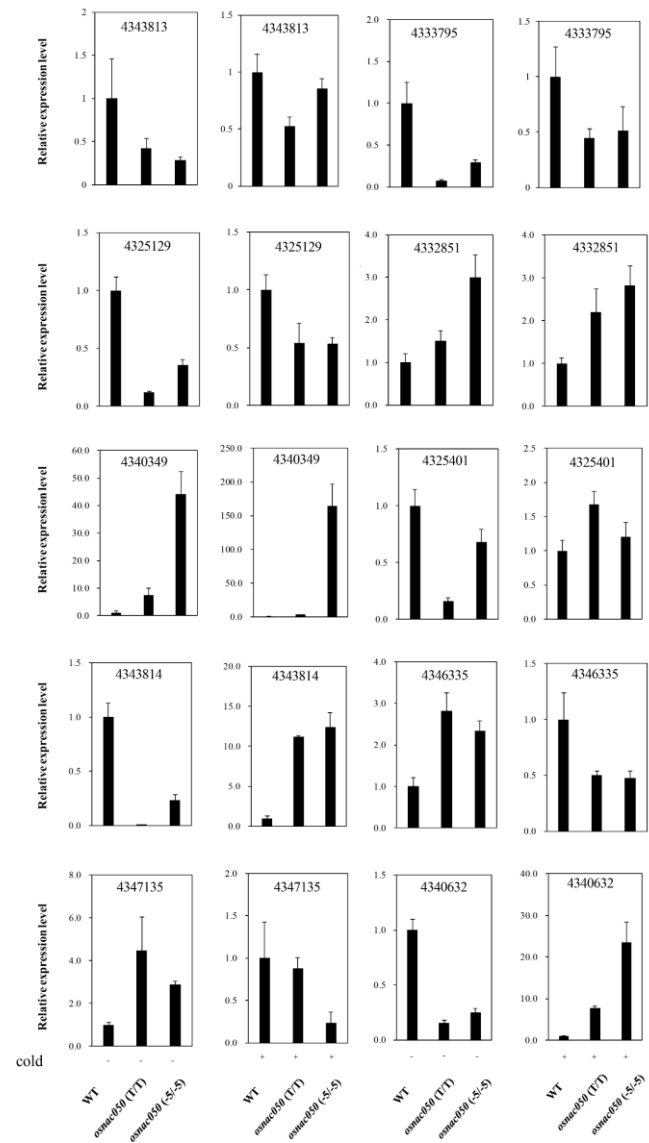


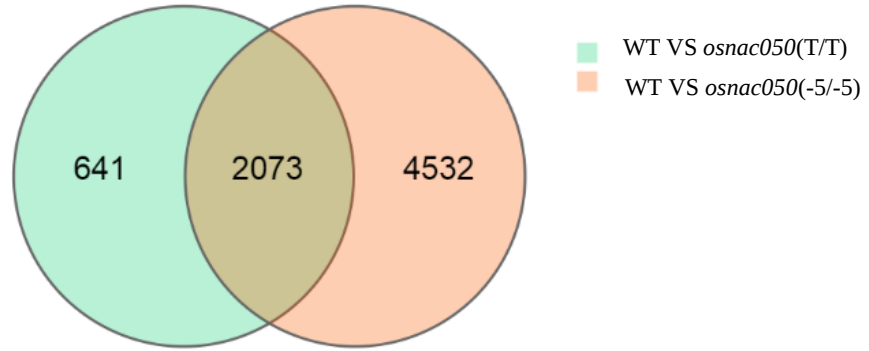
Target	Chromosome	Position	Direction	Mismatches	Number of examined lines	Number of lines with off-targets
AcTGGATgATGCATGAGTtCAGG	chr8	21086250	+	3	11	0
AgTGGgTgATGCATGAGTACAGG	chr12	25770869	+	3	11	0
AcTGGgTCATGCACgAGTACAGG	chr1	239216	+	3	11	0
ATTGGAaCATGCACaAGTACCGG	chr11	19398480	-	3	11	0
AcTGGATgATGCATGAGTtCAGG	chr8	21086250	+	3	11	0
AgTGGgTCATGCACgAGTtCCGG	chr8	5842725	-	4	11	0
ATgGtgTCATGCATGAGTgCCGG	chr3	11325120	-	4	11	0
ATTGGAcCATGCcTGAtaACAGG	chr7	25823607	+	4	11	0
AgTGGATCATGgATGAGTtgGGG	chr4	4283077	-	4	11	0
ATTGGAcCATGCcTGAaaACAGG	chr4	13357626	-	4	11	0

Supplemental Figure 1 off-target analysis of *OsNAC050*-sgRNA01

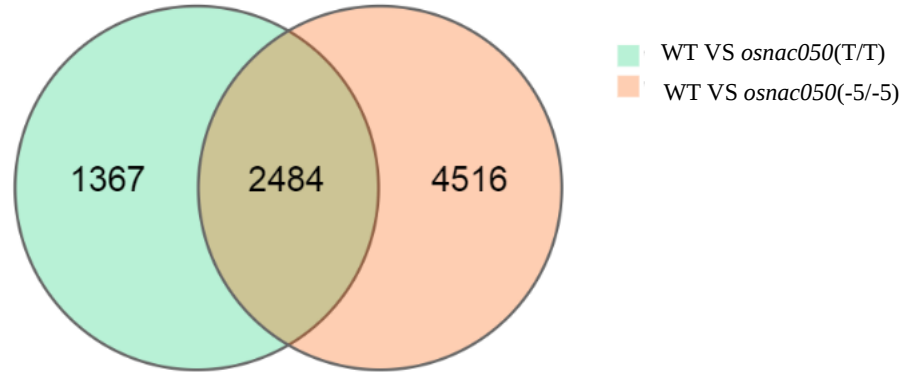


Supplemental figure 2 Validation of the RNA-seq results by qRT-PCR.

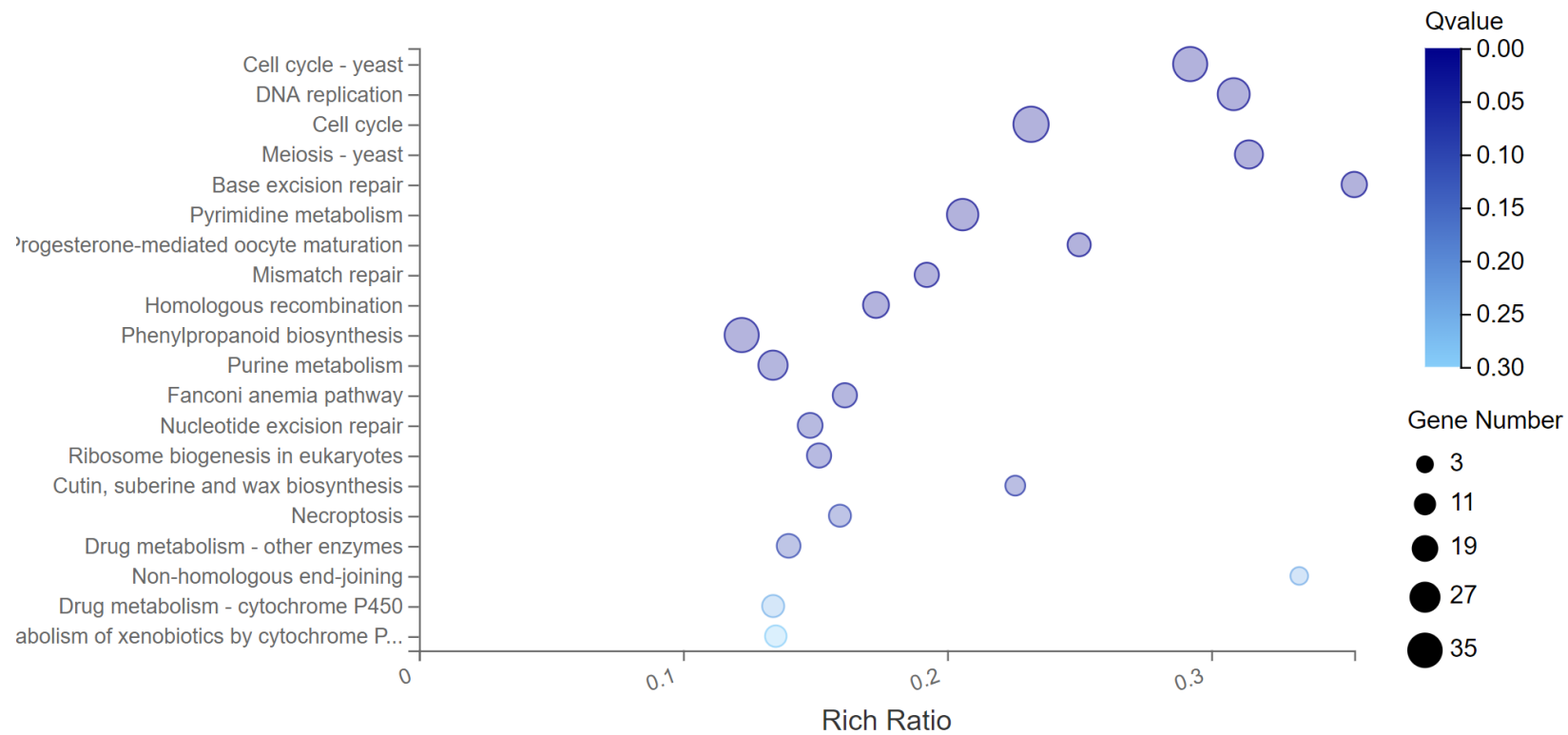
cold-



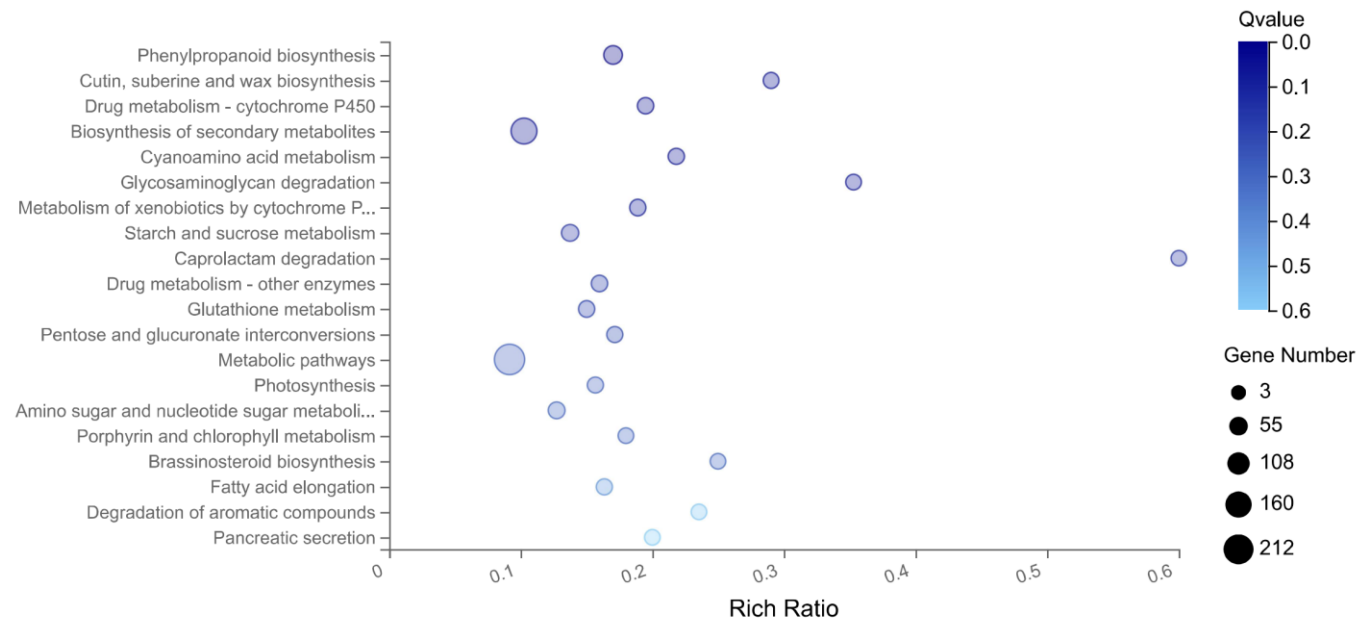
cold+



Supplemental figure 3 Venn diagram of DEGs



Supplemental figure 4 KEGG analysis of WT vs *osnac050* (T/T) vs *osnac050* (-5/-5) :cold- DEGs



Supplemental figure 5 KEGG analysis of WT vs *osnac050* (T/T) vs *osnac050* (-5/-5) :cold+ DEGs